

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
27 January 2005 (27.01.2005)

PCT

(10) International Publication Number  
**WO 2005/006906 A1**

- (51) International Patent Classification<sup>7</sup>: **A44B 11/18**
- (21) International Application Number:  
**PCT/CZ2004/000038**
- (22) International Filing Date: **20 July 2004 (20.07.2004)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:  
**PV 2003-2010 23 July 2003 (23.07.2003) CZ**
- (71) Applicant (for all designated States except US):  
**SINGING ROCK, S.R.O. [CZ/CZ]; c.p. 17, 512 42 Ponikla (CZ).**
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **KRAPKA, Vladimir [CZ/CZ]; Jizerska 559, 513 01 Semily (CZ).**
- (74) Agent: **JANKO, Vladimir; Narodni 348, 460 08 Liberec 8 (CZ).**
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): **AE, AG, AL, AM,**

**AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**

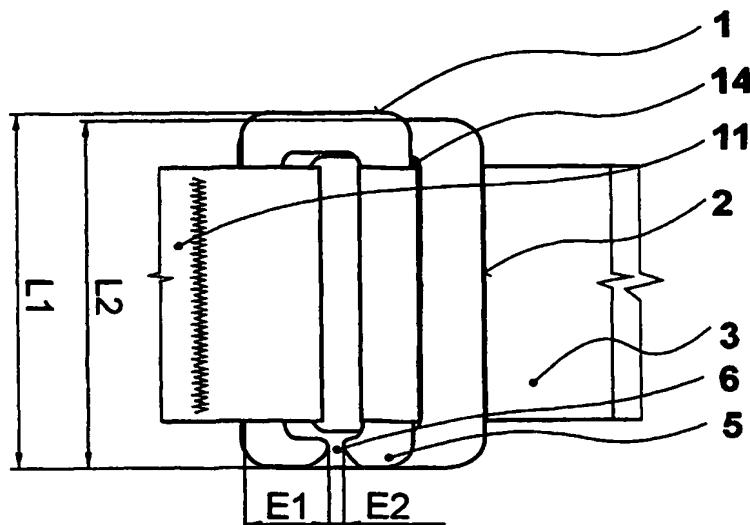
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): **ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**

**Declarations under Rule 4.17:**

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,**

[Continued on next page]

(54) Title: **FASTENING BUCKLE FOR SAFETY STRAPS**



(57) Abstract: The present invention is related to a fastening buckle intended for fastening safety straps, especially webbing of mountaineering and climbing harnesses and/or harnesses for securing persons working in height. The buckle comprises an upper frame (1) and a lower frame (2). One of the lateral sides (5) of the upper frame (1) is interrupted by a gap (6) having greater width than the thickness of the fastened strap (3). For preventing the possibility of cutting the fastened strap (3) in the transversal slot (14) between lower frame (2) and upper frame (1) at dynamic load, it is useful to bend the second long side (10) of the lower frame (2) at a sharp angle (a) with respect to the plane of the first long side (8) of the lower frame (2). For preventing the possibility of the upper frame (1) accidentally falling out of the strap loop (4), the upper frame (1) may comprise a middle transversal part (15) or the first and second long side (7, 8) of the upper and lower frame (1, 2) may be secured with a securing sleeve (9).

WO 2005/006906 A1

— of inventorship (Rule 4.17(iv)) for US only

— with international search report

***For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.***